

ABSTRACT

A radio unit for computer systems for receiving and/or presenting data information transmitted within a commercial broadcast band and methods of manufacturing and using the same. The radio unit comprises an integrated antenna system, a first radio receiver, and an interface system for removably connecting the radio unit to a computer system. The integrated antenna system includes a first set of windings, a second set of windings, and a ferrite core with a first region and a second region. To reduce parasitic capacitance among the windings, the first set of windings are wound substantially in a first direction about a circumference of the first region, and the second set of windings are wound substantially in a second direction, substantially opposite said first direction, about a circumference of the second region and are coupled with the first set of windings at a junction between the first region and the second region. The first radio receiver is coupled with the integrated antenna system and receives transmitted data information. Substantially via the interface system, the first radio receiver communicates with the computer system, which is capable of presenting the transmitted data information.